

**WEST**



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L1: Entry 1 of 2

File: JPAB

Jul 26, 1985

✓ PUB-NO: JP360141648A .  
DOCUMENT-IDENTIFIER: JP 60141648 A  
TITLE: ANTIFOGGING GLASS

PUBN-DATE: July 26, 1985

INVENTOR-INFORMATION:

NAME

COUNTRY

FUKUMOTO, SAKAE

ASSIGNEE-INFORMATION:

NAME

COUNTRY

NIPPON SODA CO LTD

APPL-NO: JP58245769 ✓

APPL-DATE: December 29, 1983

US-CL-CURRENT: 428/432; 428/687

INT-CL (IPC): C03C 17/23; H01B 5/14

ABSTRACT:

PURPOSE: To obtain the titled antifogging glass which can be heated with the small consumption of electricity by providing a transparent electroconductive film layer on the surface of the glass.

CONSTITUTION: A transparent electroconductive film layer consisting of an In<sub>2</sub>O<sub>3</sub> film layer doped with Sn, Sb, etc. or an Sn<sub>2</sub>O<sub>3</sub> film layer doped with Sb is coated on the surface of the glass which is disirably heated, then an electrode reaching the electroconductive film layer is provided, and a lead wire is drawn out from the electrode. Since the surface of the glass can be rapidly heated in this way, the condensation of steam on the surface of the glass is prevented, and the fogging of the glass can be eliminated.

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L1: Entry 2 of 2

File: DWPI

Jul 26, 1985

DERWENT-ACC-NO: 1985-220362

DERWENT-WEEK: 198536

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TITLE: Glass which is free from misting up - has transparent coating of electroconductive material e.g. doped indium oxide

PATENT-ASSIGNEE:

ASSIGNEE

CODE

NIPPON SODA CO

NIPS

PRIORITY-DATA: 1983JP-0245769 (December 29, 1983)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 60141648 A

July 26, 1985

002

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

JP60141648A

December 29, 1983

1983JP-0245769

INT-CL (IPC): C03C 17/23; H01B 5/14

ABSTRACTED-PUB-NO: JP60141648A

BASIC-ABSTRACT:

The transparent electro-conductive film layer is e.g. Sn- or Sb-doped In<sub>2</sub>O<sub>3</sub> film layer or Sb-doped SnO<sub>2</sub> film layer.

USE - Glass, the surface of which is able to be rapidly heated by application of electric current to prevent condensation of steam on the surface. Suitable for use as windscreen of a vehicle or mirror in bath room, etc.

In an example, acetyl-acetone soln. of acetylacetonato In and diisopropoxy Sn is applied on a soda glass (100 mm x 200 mm x 2 mm) heated at 480 deg. C by means of ultrasonic atomising appts. to form a transparent thin Sn-doped In<sub>2</sub>O<sub>3</sub> film having thickness of 700 angstroms. The soda glass thus treated is then dipped in organic solvent soln. of tetraisopropoxy silane, and baked at 500 deg. C to form a thin SiO<sub>2</sub> coatings having thickness of 2,000 angstroms. After providing electrodes on the electroconductive film, electric potential

of 15 volts is applied so that the surface of the SiO<sub>2</sub> coatings is heated up to 40 deg. C for 5 mins.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: GLASS FREE MIST UP TRANSPARENT COATING ELECTROCONDUCTING MATERIAL DOPE INDIUM OXIDE

DERWENT-CLASS: L01 L03 X12 X22 X25

CPI-CODES: L01-G04; L01-H02; L01-L02; L03-A02;

EPI-CODES: X12-D02A; X22-J02; X25-B01C1;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1515U; 1531U ; 1694P

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1985-096023

Non-CPI Secondary Accession Numbers: N1985-165335